

Quiz Results

File: edugram_paper

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Score: 0/10

Question 1: What is the name of the AI-driven educational framework presented in the paper?

- A. EduTech
- B. LearnAI
- C. EDUGRAM
- D. AdaptiveLearn

Explanation: The paper introduces and focuses on a framework called EDUGRAM.

Question 2: According to the paper, approximately how many people worldwide live with disabilities?

- A. 1.3 million
- B. 13 million
- C. 130 million
- D. 1.3 billion

Explanation: The abstract states that educational accessibility is a challenge for approximately 1.3 billion people worldwide living with disabilities.

Question 3: What is the reported accuracy of the EDUGRAM system in American Sign Language (ASL) recognition?

- A. 90.2%
- B. 94.2%
- C. 96.8%
- D. 98.5%

Explanation: The paper states that the system achieves 96.8% accuracy in American Sign Language (ASL) recognition across educational domains.

Question 4: What type of architecture does EDUGRAM employ for gesture recognition?

- A. Recurrent Neural Network
- B. Convolutional Neural Network
- C. Hybrid CNN-Transformer
- D. Generative Adversarial Network

Explanation: The framework employs a hybrid CNN-Transformer architecture for gesture recognition.

Question 5: What is one of the key innovations of EDUGRAM related to user privacy?

- A. Encrypted data storage
- B. Federated learning implementation
- C. Anonymous data collection
- D. User authentication

Explanation: EDUGRAM uses Federated learning implementation ensuring privacy while enabling continuous model improvement.

Question 6: What percentage increase in learning engagement was observed in the EDUGRAM user studies?

- A. 65%
- B. 73%
- C. 80%
- D. 87%

Explanation: Experimental validation demonstrated significant improvements in learning engagement (87% increase).

Question 7: In which areas do commercial accessibility solutions (like Google's Live Transcribe) lack compared to EDUGRAM?

- A. General accessibility features
- B. Real-time transcription
- C. Educational contexts requiring specialized vocabulary
- D. Voice control

Explanation: Commercial solutions focus on general-purpose accessibility rather than educational contexts requiring specialized vocabulary.

Question 8: According to the paper, what percentage of people with disabilities reside in developing nations?

- A. 50%
- B. 60%
- C. 70%
- D. 80%

Explanation: The challenge is particularly acute in developing nations, where 80% of people with disabilities reside.

Question 9: What accuracy was achieved by Jiang et al. in their skeleton-aware multimodal recognition on continuous sign language datasets?

- A. 85.2%
- B. 88.2%
- C. 91.2%
- D. 94.2%

Explanation: Jiang et al. [4] introduced skeleton-aware multimodal recognition achieving 91.2% accuracy on continuous sign language datasets.

Question 10: How does the EDUGRAM framework dynamically weight different input modalities?

- A. Randomly
- B. Based on a fixed hierarchy
- C. Based on user proficiency and contextual relevance
- D. Equally

Explanation: Our framework contributes a novel attention-based fusion mechanism that dynamically weights different input modalities based on user proficiency and contextual relevance.